



發明專利

Case 576

USA

Express Mail: EL 889287162 US
Practitioner's Docket No. 1576.89

Mailed: Oct. 04, 2001
PATENT

COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,
CONTINUATION, OR C-I-P)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type: supplemental.

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (*if only one name is listed below*) or an original, first and joint inventor (*if plural names are listed below*) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

PROCESS FOR PRODUCING ACRYLIC ACID DERIVATIVE

SPECIFICATION IDENTIFICATION

The specification of which was filed on 26 June 2001 as Application No. 09 /869,458.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, Section 1.56, and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent.

**CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)
UNDER 35 U.S.C. SECTION 120**

I hereby claim the benefit, under Title 35, United States Code, Section 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States

Code, Section 112, I acknowledge the duty to disclose information that occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. SECTION 120:				
U.S. APPLICATIONS		Status		
U.S. APPLICATIONS	U.S. FILING DATE	Patented	Pending	Abandoned
PCT APPLICATION DESIGNATING THE U.S.				
PCT APPLICATION NO.	PCT FILING DATE	U.S. APPLICATION NOS. ASSIGNED (IF ANY)		
PCT/JP99/07397	28 December 1999			

**ALL FOREIGN APPLICATION(S), IF ANY, FILED MORE THAN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

Country	Application No.	Filing Date
JAPAN	377353/1998	December 29, 1998
JAPAN	13759/1999	January 22, 1999
JAPAN	14319/1999	January 22, 1999
JAPAN	66656/1999	March 12, 1999
JAPAN	298257/1999	October 20, 1999
JAPAN	348302/1999	December 8, 1999
JAPAN	348564/1999	December 8, 1999
JAPAN	948752/1999	December 8, 1999

POWER OF ATTORNEY

I hereby appoint the following practitioner(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

- [x] I hereby appoint the practitioner(s) associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

APPOINTED PRACTITIONER(S)
REGISTRATION NUMBER(S)

Joseph C. Mason, Jr.
Dennis G. LaPointe

20,153
40,693

SEND CORRESPONDENCE TO
DIRECT TELEPHONE CALLS TO:
(Name and telephone number)

Mason & Associates, P.A.
17757 US Hwy 19 North, Suite 500
Clearwater, FL 33764

Dennis G. LaPointe
727-538-3800

Customer Number 24040

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)
Full name of sole or first inventor

INVENTOR			Country of of Citizenship
Given Name	Middle Initial	Family (Last) Name	
Yasuyuki		MIYAZAWA	Japan

RESIDENCE/Post Office Address	CITY	Country
3-22, Hakusancho 4-chome, Arai-shi	Niigata	JAPAN

Inventor's Signature: Yasuyuki Miyazawa

Date: 25 Sep. '01

Full name of second joint inventor, if any

INVENTOR			Country of of Citizenship
Given Name	Middle Initial	Family (Last) Name	
Takahiro		SAGAE	Japan

RESIDENCE/Post Office Address	CITY	Country
21-5, Honkomagome 5-chome, Bunkyo-ku	Tokyo	JAPAN

Inventor's Signature: Takahiro Sagae

Date: 28 Sep. '01

Full name of third joint inventor, if any

INVENTOR			Country of of Citizenship
Given Name	Middle Initial	Family (Last) Name	
Yutaka *		ISHII	Japan

RESIDENCE/Post Office Address	CITY	Country
1160-2-108, Fujisawa, Nakago-mura Nakakubiki-gun	Niigata	JAPAN

* PLEASE SEE ATTACHED AFFIDAVIT

Inventor's Signature: Yutaka Ishii

Date: Sep. 19, 2001

Full name of fourth joint inventor, if any

INVENTOR			Country of of Citizenship
Given Name	Middle Initial	Family (Last) Name	
Hiroyuki		YAZAKI	Japan

RESIDENCE/Post Office Address	CITY	Country
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Inventor's Signature: Hiroyuki Yazaki

Date: Sep. 26, 2001

Full name of fifth joint inventor, if any

INVENTOR			Country of of Citizenship
Given Name	Middle Initial	Family (Last) Name	
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103-9-15, Todorokicho 1-chome, Inage-ku	Chiba	JAPAN

Inventor's Signature: Makoto Funabora

Date: Sep. 14, 2001

Full name of sixth joint inventor, if any

INVENTOR			Country of of Citizenship
Given Name	Middle Initial	Family (Last) Name	
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RESIDENCE/Post Office Address	CITY	Country
258-9, Aoki Jyoetsu-shi	Niigata	JAPAN

Inventor's Signature: Mistsuru Takase

Date: Sep. 21, 2001

Full name of seventh joint inventor, if any

INVENTOR			Country of of Citizenship
Given Name	Middle Initial	Family (Last) Name	
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RESIDENCE/Post Office Address	CITY	Country
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Inventor's Signature: Yoshiyuki Iiyoshi

Date: Sep. 20, 2001

Full name of eighth joint inventor, if any

INVENTOR			Country of of Citizenship
Given Name	Middle Initial	Family (Last) Name	
Satoru		YAMAZAKI	Japan

RESIDENCE/Post Office Address	CITY	Country
A-301-1072-1, Fujisawa Nakago-mura, Nakakubiki-gun	Niigata	JAPAN

Inventor's Signature: Satoru Yamazaki

Date: Sep. 26, 2001

Full name of ninth joint inventor, if any

INVENTOR			Country of of Citizenship
Given Name	Middle Initial	Family (Last) Name	
Noriaki		KAWAHARA	Japan

RESIDENCE/Post Office Address	CITY	Country
4861, Oaza Sekiyama, Myoko-mura Nakakubiki-gun	Niigata	JAPAN

Inventor's Signature: Noriaki Kawahara

Date: Sep. 19, 2001

This declaration ends with this page.

PTO/PC Rec'd 04 OCT 2001

ne 576 USA #4



Express Mail: EL 889287162 US

Mailed: Oct. 04, 2001

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: MIYAZAWA et al.)	
)	
S.N.: 09/869,458)	Examiner: UNKNOWN
)	
I.A. FILING DATE: 28 DEC 99)	Art Unit: UNKNOWN
)	
For: PROCESS FOR PRODUCING)	
ACRYLIC ACID DERIVATIVE)	
)	

DECLARATION OF INVENTOR

Box Patent Application
Commissioner of Patents & Trademarks
Washington, D.C. 20231

Dear Sir:

I, Yutaka ISHII, declare and state:

I am one of the co-inventors of the above-identified patent application and I am the same person listed as an inventor in PCT Publication WO00/40537 as "Hiroshi ISHII."

My true name is "Yutaka ISHII" and that for the reasons described below, the listing in the PCT publication is in fact myself; but due to a translation problem, the name "Hiroshi ISHII" was listed and that the error did not come to my attention or the attention of my supervisor until after the publication.

Please note that my name as an inventor in the basic Japanese patent application was shown by ideogram (Chinese letter), which can be properly read as "Yutaka ISHII"; however, the same ideogram can be popularly read as "Hiroshi ISHII." The person who apparently made the PCT application made a mistake by reading the ideogram as "Hiroshi ISHII" without confirming the reading of the name with me or my supervisor.

I respectfully requests that the USPTO accept my declaration under my proper name of "Yutaka ISHII."

I hereby declare that all statements made herein of my own knowledge are true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, or of any patent issuing therefrom.

Dated: Sep, 19, 2001

Yutaka Ishii
Yutaka ISHII

\\1576\\1576.89\\Inventor affidavit.doc

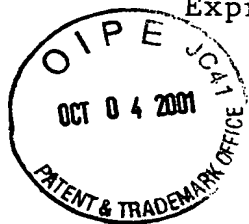
PCT Rec'd 04 OCT 2001

case 576 USA. JH

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Mailed: Oct. 04, 2001

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: MIYAZAWA et al.)

S.N.: 09/869,458)

I.A. FILING DATE: 28 DEC 99)

For: PROCESS FOR PRODUCING)
ACRYLIC ACID DERIVATIVE)

Examiner: UNKNOWN

Art Unit: UNKNOWN

DECLARATION OF INVENTOR'S SUPERVISOR

Box Patent Application
Commissioner of Patents & Trademarks
Washington, D.C. 20231

Dear Sir:

I, Keiichi Tsukashima, declare and state:

I am the manager of the Technical Research laboratory
of NIPPON SODA CO., LTD. in which Yutaka ISHII is employed.

Yutaka ISHII is in fact one of the co-inventors of the
above-identified patent application and he is the same person
listed as an inventor in PCT Publication W000/40537 as "Hiroshi
ISHII."

His true name is "Yutaka ISHII" and that for the
reasons described below, the listing in the PCT publication is in
fact "Yutaka ISHII"; but due to a translation problem, the name

"Hiroshi ISHII" was listed and that the error did not come to his attention or the attention of myself until after the publication.

Please note that his name as an inventor in the basic Japanese patent application was shown by ideogram (Chinese letter), which can be read as "Yutaka ISHII"; however, the same ideogram can be popularly read as "Hiroshi ISHII." The person who apparently made the PCT application made a mistake by reading the ideogram as "Hiroshi ISHII" without confirming the reading of the name with me or Yutaka ISHII.

I respectfully requests that the USPTO accept the declaration of inventor under the proper name of "Yutaka ISHII."

I hereby declare that all statements made herein of my own knowledge are true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, or of any patent issuing therefrom.

Dated: Sept. 18, 2001

Keiichi TsukaShima



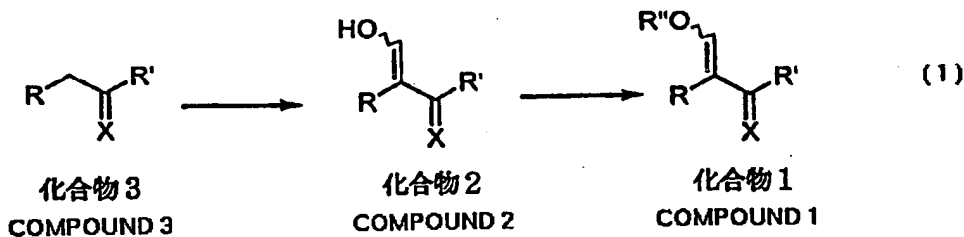
PCT

特許協力条約に基づいて公開された国際出願

(51) 国際特許分類7 C07C 45/68, 45/64, 49/248, 49/258, 67/31, 67/343, 69/73, 69/732, 69/734, C07D 239/52, 311/76, C07F 7/18, C07B 41/06, 41/04, 37/00	A1	(11) 国際公開番号 WO00/40537 (43) 国際公開日 2000年7月13日(13.07.00)															
(21) 国際出願番号 PCT/JP99/07397 (22) 国際出願日 1999年12月28日(28.12.99) (30) 優先権データ <table border="0"> <tr> <td>特願平10/377353</td> <td>1998年12月29日(29.12.98)</td> </tr> <tr> <td>特願平11/13759</td> <td>1999年1月22日(22.01.99)</td> </tr> <tr> <td>特願平11/14319</td> <td>1999年1月22日(22.01.99)</td> </tr> <tr> <td>特願平11/66656</td> <td>1999年3月12日(12.03.99)</td> </tr> <tr> <td>特願平11/298257</td> <td>1999年10月20日(20.10.99)</td> </tr> <tr> <td>特願平11/348302</td> <td>1999年12月8日(08.12.99)</td> </tr> <tr> <td>特願平11/348564</td> <td>1999年12月8日(08.12.99)</td> </tr> <tr> <td>特願平11/348752</td> <td>1999年12月8日(08.12.99)</td> </tr> </table> (71) 出願人 (米国を除くすべての指定国について) 日本曹達株式会社(NIPPON SODA CO., LTD.)(JP/JP) 〒100-8165 東京都千代田区大手町2丁目2番1号 Tokyo, (JP)	特願平10/377353	1998年12月29日(29.12.98)	特願平11/13759	1999年1月22日(22.01.99)	特願平11/14319	1999年1月22日(22.01.99)	特願平11/66656	1999年3月12日(12.03.99)	特願平11/298257	1999年10月20日(20.10.99)	特願平11/348302	1999年12月8日(08.12.99)	特願平11/348564	1999年12月8日(08.12.99)	特願平11/348752	1999年12月8日(08.12.99)	(72) 発明者; および (75) 発明者/出願人 (米国についてのみ) 宮澤靖之(MIYAZAWA, Yasuyuki)(JP/JP) 寒河江隆浩(SAGAE, Takahiro)(JP/JP) 石井 裕(ISHII, Hiroshi)(JP/JP) 矢崎宏之(YAZAKI, Hiroyuki)(JP/JP) 舟洞 誠(FUNABORA, Makoto)(JP/JP) 高瀬 満(TAKASE, Mitsuru)(JP/JP) 飯吉幸之(IIYOSHI, Yoshiyuki)(JP/JP) 山崎 悟(YAMAZAKI, Satoru)(JP/JP) 川原典明(KAWAHARA, Noriaki)(JP/JP) 〒949-2392 新潟県中頸城郡中郷村大字藤沢950 日本曹達株式会社 二本木工場内 Niigata, (JP) (74) 代理人 東海裕作, 外(TOKAI, Yusaku et al.) 〒100-8165 東京都千代田区大手町2丁目2番1号 日本曹達株式会社内 Tokyo, (JP) (81) 指定国 JP, US, 欧州特許 (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE) 添付公開書類 国際調査報告書
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特願平11/348752	1999年12月8日(08.12.99)																

(54) Title: PROCESSES FOR PRODUCING ACRYLIC ACID DERIVATIVE

(54) 発明の名称 アクリル酸誘導体の製造方法



(57) Abstract

Processes for producing a compound (1) represented by formula (1), which includes an acrylic acid derivative and is useful as an agricultural chemical or medicine. One of the processes comprises the step of formylating a compound (3) (step (1)) and the step of converting the OH of the resultant compound (2) into OR" (step (2)). The step (1) comprises reacting a formic or orthoformic ester in the presence of a Lewis acid and a base. The step (2) comprises [1] reacting the compound (2) with R" OH or with R" OH and CH(OR")₃ under acidic conditions or [2] using a phase-transfer catalyst in a two-phase system and regulating the base and the concentration thereof to stereoselectively synthesize the target compound. In another process, the compound (1) is efficiently produced without isolating the compound (2). In still another process, the compound (1) is directly produced without via the compound (2).